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		Passage Ca
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Department of Commerce and Cabor
COAST AND GEODETIC SURVEY
Superintendent.
State: Alaska.
DESCRIPTIVE REPORT.
Hyd. Sheet No. 3.538
LOCALITY:
Prince William
Same
Passage Canal
Tipper Part
//
1913
CHIEF OF PARTY:
J J Rude

Alaska.

3538

Gilbert T. Rude, 1913.

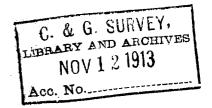
DESCRIPTIVE REPORT.

to accompany

D

Hydrographie Sheet No.

PASSAGE CANAL, ALASKA.



This sheet extends from the head of Passage Canal five miles down the Ganal.

It is a detached survey. No triangulation has been carried up the Canal and the hydrographic work is controlled by topographic triangulation, carried down the Canal from a topographic base, measured across the gravel flats at its head. This is shown on topographic sheet "E", Head of Passage Canal.

The Steamer Taku was used on the larger part of the work.

Launch No. 41 and whaleboat were used only near the head of the

Canal on the inshore work. The soundings taken from the steamer

were with improved cosmos sounding machine, backing up for up
right casts in depths greater than about fifty fathoms. In depths

less than about fifty rathoms pressure tube was used. An or
dinary hand leadline was used from the launch and whaleboat.

The bottom is composed of blue glacial clay except close inshore at the head of the Canal; at Whittier Delta, and at Billings Delta. Here the bottom is gravel.

Difficulty was experienced on the inshore work with leading in the small boats because of the sudden deepening of the water on the edge of the gravel flats. The inshore sounding shows

the possibilities of a dock paralleling the shoreline near the Lead of the Canal on the south side and along Whittier Delta, with room for bunker sites on Whittier Delta.

An anchorage of small extent, one mile long by one quarter mile wide, paralleling the general shoreline, was found on the south side of the Canal about four miles from its head, the depths ranging from ten to thirty fathoms. The bottom is sticky, blue glacial clay, a sample of which is forwarded to the Washington Office as a part of these records. When taken the clay had the appearance and consistency of ordinary commercial putty when mixed ready for use.

Notes concerning the weather etc in Passage Canal will be embodied in the Season Report covering this section.

a plain tide staff was erected in Passage Bay, indenting the south shore of Passage Canal about six miles from its head. A datum plane was established from observations, day am night, covering twelve days, august 11th to August 22nd.

The soundings plotted on the boat sheet are in fathoms, with no tidal reduction. The critical soundings plotted on the smooth hydrographic sheet are in feet with tidal reduction applied.

Respectfully submitted,

Gilbert J. Vande

Assistant, C. & G. Survey.



Statistics hydrographic sheet ">

<u> pat</u>	e. 191	3	Letter	vol.	<u>rositions</u>	Soundings	Stat. m	iVessal_
August	15	r*	d.	1	138	196	22.9	Taku
tt.	16		Ь	1	152	254	24.9	Taku
••	18		C	1	85	88	14.1	Taku
11	18	, see 3	G	2	58	249	6.1	whaleboat
Sept.	9		d	1	19	26	2.5	Taku
ü	9 .		d	3	28	58	1.4	_Launch 41
		T	otals		480	871	71.9	

Note: Soundings plotted on Smooth Hydrographic are in feet and are plotted in pencil by field party.

Using Tide Staff in Passage Bay, Passage Canal, alaska.

HYDROGRAPHIC SHEET 3538.

Passage Canal, Prince William Sound, Alaska, by
Asst. G. T. Rude in 1913.

TIDES.

		Passage Bay
Mean lower low water, or plane of reference on s	taff	7.1
Lowest tide observed "	111	6.1
Highest " " "	11	20.7
Mean range of tide		10.0

HYDROGRAPHIC SHEET 3538.

Passage Canal, Prince William Sound, Alaska, by Asst. G. T. Rude in 1913.

TIDES.

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Mean lower low water, or plane of reference on staff	7.1
Lowest tide observed " "	6.1
Highest " " " "	20.7
Mean range of tide	10.0

H. 3538.

The soundings are sufficient and well spaced. The projection is in pencil, as it is not a true projection it is left so. It was made to fit the signals which were determined graphically. Space examined in Div. of Myd'y & Top'y.

Thyd. Sheet Mo. 3538. "Passage Canal, Alaska"

Berton Commencer Commencer

Paritions for work concred by this sheet, platted by field party and have been taken as correct but checked in a few cases to identify position and line.

Soundings platted in penil and fast by field porty: These have

been reduced to fashows and verified.

North good and would appear sufficient to develop this area. Becords well kept and nothing left for guess work. Cross lines, when run, soundings coincide favorably.

John D. Forrey. 3/3/14.

Verified. John D. Torrey 3/2/11